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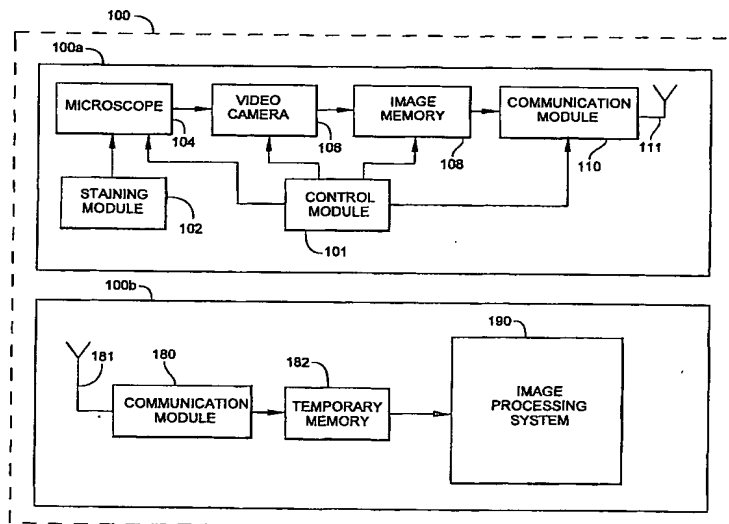
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(54) Title: SYSTEM AND METHOD FOR RAPIDLY IDENTIFYING PATHOGENS, BACTERIA AND ABNORMAL CELLS



(57) Abstract: The present invention achieves rapid identification of pathogens, bacteria, cancer cells and other abnormal human and animal cells. In one embodiment, the system of the present invention comprises a first subsystem that obtains and processes images of specimens of pathogens, bacteria, and other abnormal cells, and a second subsystem that accepts the images, isolates the particular features of the image using advanced image segmentation, and then rapidly and accurately identifies the pathogens, bacteria and other abnormal cells by using a pattern recognition process wherein the segmented or isolated features of the original image are compared to known reference images.

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